The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Withdrawn) A method of manufacturing a semiconductor device comprising the steps of:

adding a metallic element to a first semiconductor film having an amorphous structure;

crystallizing the first semiconductor film to form a first semiconductor film having a crystalline structure;

forming a barrier layer on a surface of the first semiconductor film having a crystalline structure;

forming a second semiconductor film on the barrier layer;

forming a third semiconductor film comprising an inert a noble gas element on the second semiconductor film;

gettering the metallic element into the third semiconductor film to remove or reduce the amount of the metallic element within the first semiconductor film having a crystalline structure; and

removing the second semiconductor film and the third semiconductor film.

- 2. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming of the third semiconductor film comprises steps of forming a semiconductor film and adding an inert a noble gas element to the semiconductor film.
- 3. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming of the third semiconductor film comprises a step of

forming a semiconductor film comprising an inert a noble gas element by using plasma CVD or reduced pressure thermal CVD.

- 4. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming of the third semiconductor film comprises a step of forming a third semiconductor film comprising an inert a noble gas element by using sputtering.
- 5. (Withdrawn) A method of manufacturing a semiconductor device according to claim 3, comprising the step of forming the third semiconductor film comprising an inert a noble gas element and further adding an inert a noble gas element to the third semiconductor film.
- 6. (Withdrawn) A method of manufacturing a semiconductor device according to claim 4, comprising the step of forming the third semiconductor film comprising an inert a noble gas element and further adding an inert a noble gas element to the third semiconductor film.
- 7. (Withdrawn) A method of manufacturing a semiconductor device according to claim 2, comprising the step of adding one element or a plurality of elements chosen from the group consisting of O, O2, P, H, and H2 in addition to the [[inert]] noble gas element.
- 8. (Withdrawn) A method of manufacturing a semiconductor device according to claim 5, comprising the step of adding one element or a plurality of elements chosen from the group consisting of O, O2, P, H, and H2 in addition to the [[inert]] noble gas element.

- 9. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the third semiconductor film is a semiconductor film having an amorphous structure or a crystalline structure.
- 10. (Withdrawn) A method of manufacturing a semiconductor device comprising the steps of:

adding a metallic element to a first semiconductor film having an amorphous structure:

crystallizing the first semiconductor film to form a first semiconductor film having a crystalline structure;

forming a barrier layer on a surface of the first semiconductor film having a crystalline structure;

forming a second semiconductor film on the barrier layer;

adding an inert a noble gas element to an upper layer of the second semiconductor film;

gettering the metallic element into the upper layer of the second semiconductor film to remove or reduce the amount of the metallic element within the first semiconductor film having a crystalline structure; and

removing the second semiconductor film.

- 11. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, comprising the step of adding one element or a plurality of elements chosen from the group consisting of O, O2, P, H, and H2 in addition to the [[inert]] noble gas element.
- 12. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the second semiconductor film is a semiconductor film having an amorphous structure or a crystalline structure.

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- 13. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the second semiconductor film is a semiconductor film having an amorphous structure or a crystalline structure.
- 14. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the metallic element is one element or a plurality of elements chosen from the group consisting of Fe, Ni, Co, Ru, Rh, Pd, Os, Ir, Pt, Cu, and Au.
- 15. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the metallic element is one element or a plurality of elements chosen from the group consisting of Fe, Ni, Co, Ru, Rh, Pd, Os, Ir, Pt, Cu, and Au.
- 16. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of crystallizing the first semiconductor film is a heat treatment process.
- 17. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of crystallizing the first semiconductor film is a heat treatment process.
- 18. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of crystallizing the first semiconductor film is a process of irradiating strong light to the semiconductor film having an amorphous structure.
- 19. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of crystallizing the first semiconductor film is a process of irradiating strong light to the semiconductor film having an amorphous structure.

- 20. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of crystallizing the first semiconductor film is a heat treatment process and a process of irradiating strong light to the semiconductor film having an amorphous structure.
- 21. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of crystallizing the first semiconductor film is a heat treatment process and a process of irradiating strong light to the semiconductor film having an amorphous structure.
- 22. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by using a solution containing ozone.
- 23. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by using a solution containing ozone.
- 24. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by irradiating ultraviolet light.
- 25. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of forming the barrier layer is a step of oxidizing a surface of the semiconductor film having a crystalline structure by irradiating ultraviolet light.

- 26. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of gettering is a heat treatment process.
- 27. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of gettering is a heat treatment process.
- 28. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of gettering is a process of irradiating strong light to the semiconductor film.
- 29. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of gettering is a process of irradiating strong light to the semiconductor film.
- 30. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the step of gettering is a heat treatment process and a process of irradiating strong light to the semiconductor film.
- 31. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the step of gettering is a heat treatment process and a process of irradiating strong light to the semiconductor film.
- 32. (Withdrawn) A method of manufacturing a semiconductor device according to claim 18, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.

- 33. (Withdrawn) A method of manufacturing a semiconductor device according to claim 19, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 34. (Withdrawn) A method of manufacturing a semiconductor device according to claim 20, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 35. (Withdrawn) A method of manufacturing a semiconductor device according to claim 21, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 36. (Withdrawn) A method of manufacturing a semiconductor device according to claim 28, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 37. (Withdrawn) A method of manufacturing a semiconductor device according to claim 29, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 38. (Withdrawn) A method of manufacturing a semiconductor device according to claim 30, wherein the strong light is light emitted from a halogen lamp, a metal halide

lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.

- 39. (Withdrawn) A method of manufacturing a semiconductor device according to claim 31, wherein the strong light is light emitted from a halogen lamp, a metal halide lamp, a xenon arc lamp, a carbon arc lamp, a high pressure sodium lamp, or a high pressure mercury lamp.
- 40. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the [[inert]] <u>noble</u> gas element is one element or a plurality of elements chosen from the group consisting of He, Ne, Ar, Kr, and Xe.
- 41. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the [[inert]] <u>noble</u> gas element is one element or a plurality of elements chosen from the group consisting of He, Ne, Ar, Kr, and Xe.
- 42. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the third semiconductor film further comprises one element or a plurality of element elements selected [[form]] from the group of O, O₂, P, H, H₂.
- 43. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the third semiconductor film further comprises one element or a plurality of element elements selected [[form]] from the group of O, O₂, P, H, H₂.
- 44. (Withdrawn) A method of manufacturing a semiconductor device according to claim 1, wherein the third semiconductor film comprises an inert a noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.

- 45. (Withdrawn) A method of manufacturing a semiconductor device according to claim 10, wherein the second semiconductor film is added comprises an inert a noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- A method of manufacturing a semiconductor device (Withdrawn) 46. comprising:

forming a first semiconductor film having an amorphous structure over a substrate;

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity;

forming a barrier layer over the first semiconductor film having a crystalline structure;

forming a second semiconductor film over the barrier layer;

forming a third semiconductor film over the second semiconductor film, the third semiconductor film comprising an inert a noble gas element;

gettering the material for promoting crystallization into the third semiconductor film.

47. (Currently Amended) A method of manufacturing a semiconductor device comprising:

forming a first semiconductor film having an amorphous structure over a substrate;

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity;

forming a barrier layer over the first semiconductor film having a crystalline structure;

forming a second semiconductor film over the barrier layer;

adding an inert a noble gas element to an upper layer of the second semiconductor film;

gettering the material for promoting crystallization into the upper layer of the second semiconductor film.

48. (Currently Amended) A method of manufacturing a semiconductor device comprising:

forming a first semiconductor film having an amorphous structure over a substrate;

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity; forming a second semiconductor film over the first semiconductor film;

forming a third semiconductor film over the second semiconductor film, the third semiconductor film comprising an inert a noble gas element;

gettering the material for promoting crystallization into the third semiconductor film.

49. (Currently Amended) A method of manufacturing a semiconductor device comprising:

forming a first semiconductor film having an amorphous structure over a substrate;

providing the first semiconductor film with a material for promoting crystallization; heating the first semiconductor film for crystallizing;

irradiating the first semiconductor film with a laser light for improving crystallinity;

forming a second semiconductor film over the first semiconductor film, the second semiconductor film comprising an inert a noble gas element;

gettering the material for promoting crystallization into the second semiconductor film.

- 50. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.
- 51. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.
- 52. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 53. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 54. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the [[inert]] noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 55. (Currently Amended) A method of manufacturing a semiconductor device according to claim 47, wherein the [[inert]] noble gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.

- 56. (Withdrawn) A method of manufacturing a semiconductor device according to claim 48, wherein the [[inert]] <u>noble</u> gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 57. (Withdrawn) A method of manufacturing a semiconductor device according to claim 49, wherein the [[inert]] <u>noble</u> gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 58. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the third semiconductor film comprises the [[inert]] <u>noble</u> gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 59. (Currently Amended) A method of manufacturing a semiconductor device according to claim 47, wherein the second semiconductor film comprises the [[inert]] noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 60. (Withdrawn) A method of manufacturing a semiconductor device according to claim 48, wherein the third semiconductor film comprises the [[inert]] noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 61. (Withdrawn) A method of manufacturing a semiconductor device according to claim 49, wherein the second semiconductor film comprises the [[inert]] noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 62. (Withdrawn) A method of manufacturing a semiconductor device according to claim 46, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile

computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.

- 63. (Previously Presented) A method of manufacturing a semiconductor device according to claim 47, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 64. (Withdrawn) A method of manufacturing a semiconductor device according to claim 48, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 65. (Withdrawn) A method of manufacturing a semiconductor device according to claim 49, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 66. (Withdrawn) A method of manufacturing a semiconductor device comprising:

providing a crystalline semiconductor film comprising silicon over a substrate, said crystalline semiconductor film containing <u>a</u> metallic element;

forming a barrier layer over the crystalline semiconductor film; forming a second semiconductor film over the barrier layer;

forming a third semiconductor film comprising an inert <u>a noble</u> gas element over the second semiconductor film;

gettering the metallic element into the third semiconductor film to remove or reduce the amount of the metallic element within the crystalline semiconductor film; and removing the second semiconductor film and the third semiconductor film.

67. (Withdrawn) A method of manufacturing a semiconductor device comprising:

providing a crystalline semiconductor film comprising silicon over a substrate, said crystalline semiconductor film containing <u>a</u> metallic element;

forming a barrier layer over the crystalline semiconductor film;

forming a second semiconductor film over the barrier layer;

adding an inert a noble gas element to an upper layer of the second semiconductor film;

gettering the metallic element into the upper layer of the second semiconductor film to remove or reduce the amount of the metallic element within the crystalline semiconductor film; and

removing the second semiconductor film.

- 68. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.
- 69. (Withdrawn) A method of manufacturing a semiconductor device according to claim 67, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by using a solution containing ozone.

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- 70. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 71. (Withdrawn) A method of manufacturing a semiconductor device according to claim 67, wherein the barrier layer is formed by oxidizing a surface of the first semiconductor film by irradiating ultraviolet light.
- 72. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the [[inert]] <u>noble</u> gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 73. (Withdrawn) A method of manufacturing a semiconductor device according to claim 67, wherein the [[inert]] <u>noble</u> gas element is at least an element selected from the group consisting of He, Ne, Ar, Kr and Xe.
- 74. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the third semiconductor film comprises the [[inert]] <u>noble</u> gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 75. (Withdrawn) A method of manufacturing a semiconductor device according to claim 67, wherein the second semiconductor film comprises the [[inert]] noble gas element at a concentration of 1×10^{19} to 1×10^{22} /cm³.
- 76. (Withdrawn) A method of manufacturing a semiconductor device according to claim 66, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile

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computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.

- 77. (Withdrawn) A method of manufacturing a semiconductor device according to claim 67, wherein the semiconductor device is applied to an electronic apparatus selected from the group consisting of a personal computer, a video camera, a mobile computer, a goggle type display, a DVD, a digital camera, a front type projector, a rear type projector, a mobile phone and an electronic book.
- 78. (Currently Amended) A method of manufacturing a semiconductor device comprising the steps of:

providing a crystalline semiconductor film comprising silicon over a substrate, said crystalline semiconductor film containing <u>a</u> metallic element;

forming a semiconductor film over the crystalline semiconductor film;

adding an inert a noble gas element [[into]] to an upper layer of the semiconductor film;

gettering the metallic element into the semiconductor film to remove or reduce the amount of the metallic element within the crystalline semiconductor film.

- 79. (Currently Amended) A method of manufacturing a semiconductor device according to claim 78, wherein the [[inert]] <u>noble gas</u> element is added into an upper surface of the semiconductor film.
- 80. (Currently Amended) A method of manufacturing a semiconductor device according to claim 78, wherein the semiconductor film comprises a first semiconductor film and a second semiconductor film comprising an inert a noble gas element on the first semiconductor film.